Infrared Spectrograph (IRS)

- **PI** - Jim Houck, Cornell University
- **Contractor** - Ball Aerospace
- **Key Features**
  - *R=600 spectroscopy, 10-40um; R=50 spectroscopy, 5-40um*
  - *Uses 128x128 Boeing Si:As and Si:Sb IBC arrays*
  - *No moving parts*
  - *Two R=600 modules [10-20,20-40um] operate in echelle mode*
  - *Two R=50 modules [5-15, 15-40um] operate in long-slit mode*
    - Order sorting accomplished by filters on lo-res slits
  - *Peak-up imaging at 15um incorporated into short-lo module*
    - Allows acquisition of sources with poorly known positions
    - Can be used with any module, or independently for photometry
  - *Operates in staring and scanning modes*
  - *Prototype has been used at Palomar observatory*
- **Performance**:
  - *Measures complete spectrum of any IRAS source in just a few minutes*